

**Notice of Allowability**

Application No.

09/723,795

Examiner

Shuwang Liu

Applicant(s)

EASTON ET AL.

Art Unit

2634

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the amendment filed 01/10/05.
2. ☒ The allowed claim(s) is/are 1, 2, 4-39, 43, 44, 48-54, 57, 58, 60 and 61.
3. ☒ The drawings filed on 10 January 2005 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 05/06/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

## DETAILED ACTION

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Alex C. Chen on May 06, 2005.

The application has been amended as follows:

- (1) In claim 1, line 6, insert - -different- - before "segments";
- (2) In claim 1, line 7, insert - -different- - after "retrieved";
- (3) In claim 1, line 12, insert - -the- - before "multiple";
- ° (4) In claim 1, line 16, change "multiple" to - -different- -;
- (5) In claim 35, line 1 , change "Currently amended" to - -Original- -;
- (6) In claim 57, line 1, insert - -, - - after "claim 1";
- (7) In claim 57, lines 2 and 5, insert - -multiple- - before "signal", respectively;
- (8) In claim 61, line 5, insert - -different- - after "retrieved";
- (9) In claim 61, line 7, change "process" to - - processing- - and insert - -different- - after "retrieved";
- (10) In claim 61, line 12, insert - -the- - before "multiple"; and
- (11) In claim 61, line 16, change "the controller" to - -a controller- -.

***Allowable Subject Matter***

2. Claims 1, 2, 4-39, 43, 44, 48-54, 57, 58, 60 and 61 are allowed.

3. The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to teach and suggest the receiver comprises the interpolator including one or more pairs of scaling elements, each scaling element operative to receive and scale respective despread samples with a particular gain to generate scaled samples, and one or more summer, each summer coupled to a respective pair of scaling elements and operative to receive and sum the scaled samples from the pair of scaling elements to generate the interpolated samples as received in claim 15.

Furthermore, the prior art fails to teach and suggest the receiver comprises the micro-controller includes a set of latches operative to latch a dispatched task and one or more parameter values to be applied for the dispatched task, at least one counter, each counter coupled to a respective latch and operative to provide an indicator signal based on a value stored in the latch, and a sequencing controller operative to receive at least one indicator signal and the dispatched task and to generate the set of control signals as recited in claims 35, 48 and 60 and a controller, a microcontroller, and an address generator as recited in claims 1 and 16.

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**Conclusion**

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is 571 272-3036. The examiner can normally be reached on M-F, 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703 305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



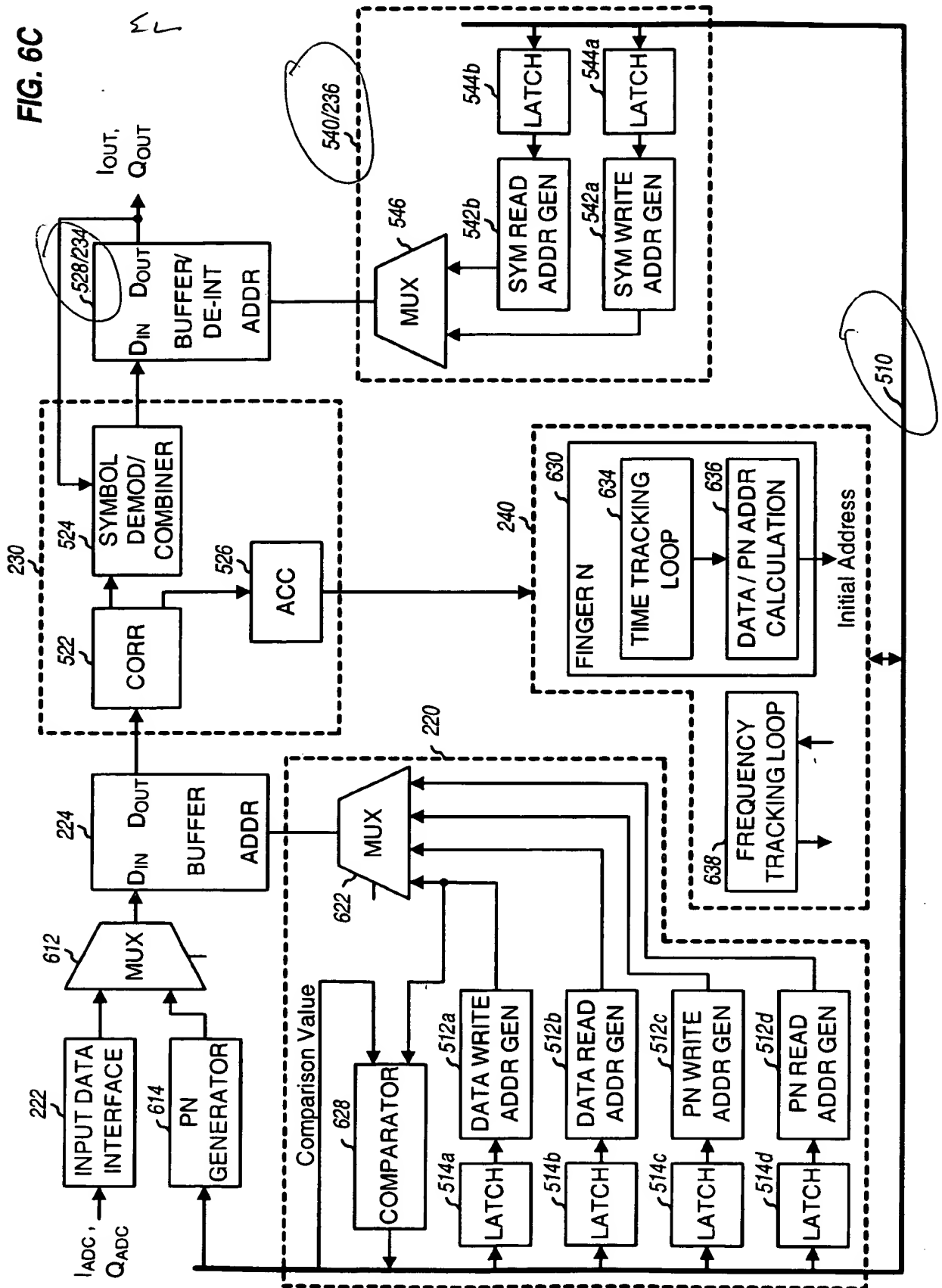
Shuwang Liu  
Primary Examiner  
Art Unit 2634

May 9, 2005



approved. 5/5/05

FIG. 6C





approved

5/5/05

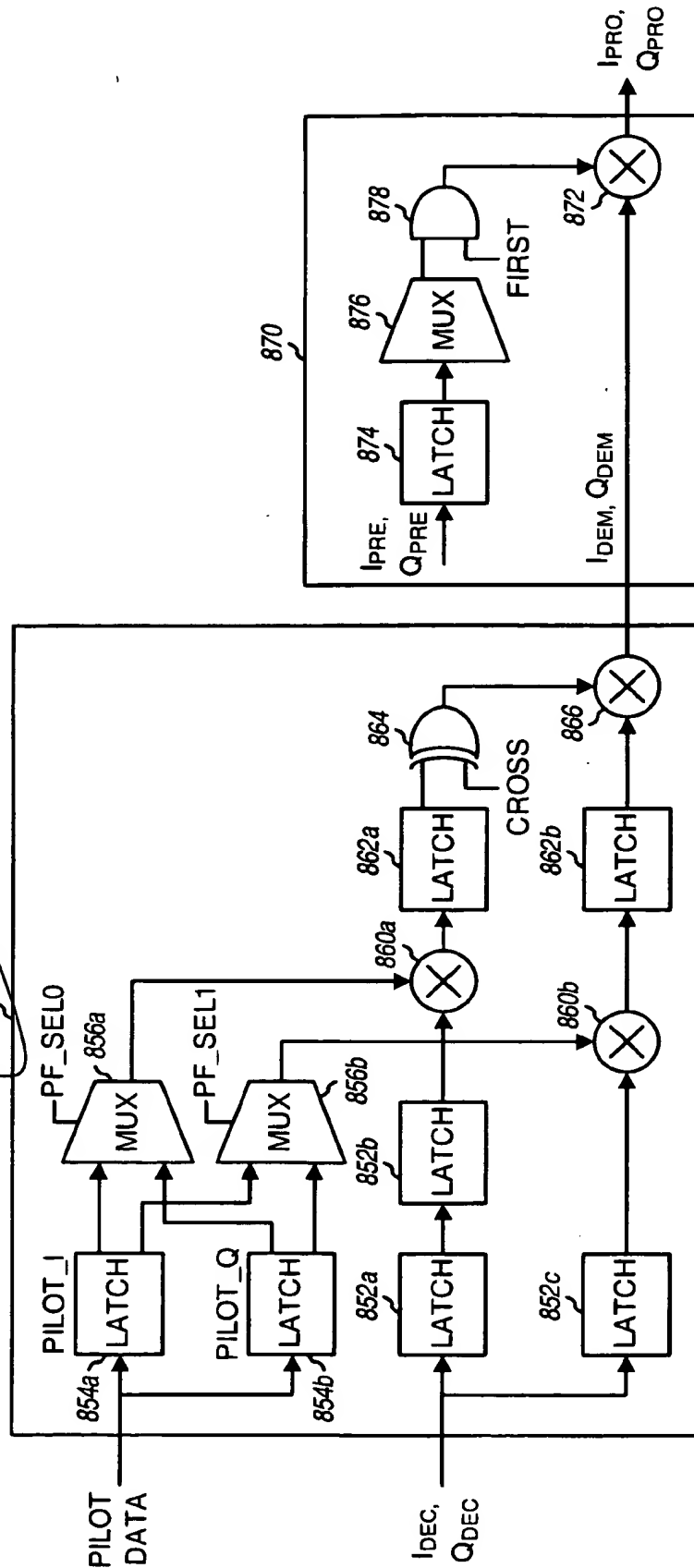


FIG. 8C





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SL. 05/05/05

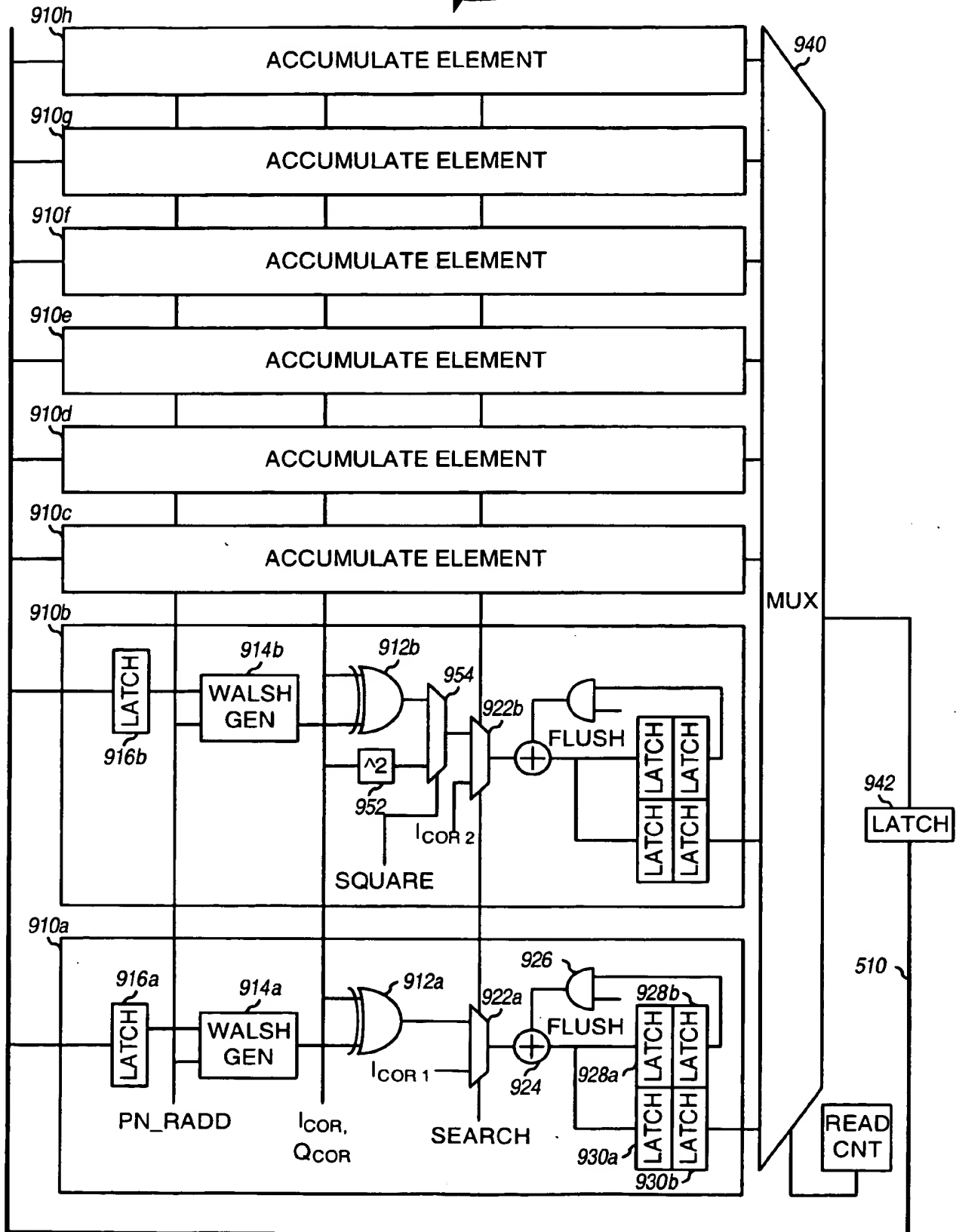


FIG. 9